Professor Michael Redhead FBA

15.2.98

Dear Katinha, In response to the new reply of the second referee, I suggest une e-mail Von der Merwe along the following lines: "In order to most the points raised in the now reply of the second refered, we suggest making the following adjustments to the Point nº1: We propose re-writing para 1 06 p. 16 as focus source with splan: the first stoyes of the spin ocho enforment do not show the behaviour the spin ocho experiment ourselves to to the experiment;
we mormally faken ourselves to the equilibrium
it is true equilibrium, not apparent equilibrium
which is typical of thermodynamic hehaviour.
This is illustrated by the ease of an injurying

Evanse - grainer . Such a person well predict
the wrong results. Suppose the just walks by and follows to see the system at the moment The second of pulse has been applied. She well then pediet that the system will remain in the apparently disordered state; but in fact, of course, the system well return to A state are with all the spring ever algority along the same as is, so that the seke signal is emilled. The echo will come as a conflicto Amprise to the course granion. For the interventionent the echo is no surprise at all, since for from that the septem has been proposed in a very expecial way (that minimizes the effect of interventionist perturbations). the pind of thermodypones behaviour we would like to explain using statistical mechanics is The behaviour which look to books to the usual situation in which on innocent observer renovace of the Restory of the Repton well actually make the night prediction, namely that the system is going to stay in the equilibrium state for all future times. It is these states which ear truly be called equilibrium states.

II

We profose adding the following Point no 2 comment et ile end of para) on p. so: \ We do not cloim, of course, that it is a virtul of our model that it is a mixing system and has no strongs engotie properties. In the certain, our romails about the infinite times the system needs to read the equilibreum state points to the problematic aspects of approaches based on mixing properties, serve un are convinced that statesteal mechanics should reproduce the finite relatation times we find in roof thormodynamic system. The interventement approved us defend later in the faster maker no reference to expode therems, and may be expected to prodoce york valishe. relaxation tens to free Equalibrium own for mesong systems, (In grown we reget ergodes approaches since they do not affer to be rebosons for realistic systems.

Part no 3 para 2, p. 17, we propose simply mitting the last solones, while the referee foods might be a source of con fusion Pour no 4 (final promagnosth of referee's rofly). We suggest the following new panagraph to be inserted just lopel the last paragraff of p. 19: I Effectively the system is 'exporting' its correlations to the environment, but, of course, the arguest can to reported for the larger system Censisting of the original system ander investigation and its unmediate environment)
Which will also exhibit an inverse in to fine grained entropy, doe to perfurbitions from Ale environment et de souronment. But, firely the granton arises what the implications of the intermentionist approach and We trust the amendments meet with your apport, to de

let me pron ulet you which and for prepare a suitable e-man for Var der Marrero. (By the way 9 have noted on Azpo or p. 19, a lines from ord of popultimete paragraph, delete final 's' pour Systems .) Wret best Wiston V/1 chael